

Abstract

The present invention discloses a method and device for implementing Och-SPRing in Wavelength Division Multiplexing system. The method includes: in the node of the optical network system, setting two switches in each working path and its backup path 5 that pass through the node, each of which includes two input ports and one output port; when receiving signals, controlling the first switch to selectively accept the downlink service signals sent from the working path or the backup path; when sending signals, sending the uplink service signal sent from the local device respectively to one output port of uplink direction in the working path and the second switch; controlling the second 10 switch to choose one signal among the local uplink service signal and the downlink service signal sent from the backup path to input into the uplink direction of the backup path. The method of the present invention can largely reduce construction cost of the system, save optical power budget, and improve OSNR.